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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/726,117	12/02/2003	Hiroyasu Inoue	1324.68772	7770	
75	7590 02/09/2005			EXAMINER	
Patrick G. Burns, Esq. GREER, BURNS & CRAIN, LTD. Suite 2500 300 South Wacker Drive Chicago, IL 60606			DUONG,	DUONG, THOI V	
			ART UNIT	PAPER NUMBER	
			2871		
			DATE MAILED: 02/09/2005		

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)				
Office Action Commons	10/726,117	INOUE ET AL.				
Office Action Summary	Examiner	Art Unit				
	Thoi V Duong	2871				
The MAILING DATE of this communication ap Period for Reply	pears on the cover sheet with the c	orrespondence address				
A SHORTENED STATUTORY PERIOD FOR REPL THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1. after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a repleted in the provided for reply is specified above, the maximum statutory period Failure to reply within the set or extended period for reply will, by statut Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	136(a). In no event, however, may a reply be tirely within the statutory minimum of thirty (30) day will apply and will expire SIX (6) MONTHS from the cause the application to become ABANDONE	nely filed s will be considered timely. the mailing date of this communication. (35 U.S.C. § 133).				
Status						
1)⊠ Responsive to communication(s) filed on 22 I	November 2004.					
	s action is non-final.					
	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.					
Disposition of Claims						
4) ⊠ Claim(s) 2-4 is/are pending in the application. 4a) Of the above claim(s) is/are withdra 5) □ Claim(s) is/are allowed. 6) ⊠ Claim(s) 2-4 is/are rejected. 7) □ Claim(s) is/are objected to. 8) □ Claim(s) are subject to restriction and/	awn from consideration.					
Application Papers						
9) The specification is objected to by the Examin	er.					
10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
Replacement drawing sheet(s) including the correct 11) The oath or declaration is objected to by the E	* * * * * * * * * * * * * * * * * * * *					
Priority under 35 U.S.C. § 119						
12) Acknowledgment is made of a claim for foreig a) □ All b) □ Some * c) □ None of: 1. □ Certified copies of the priority document 2. ☒ Certified copies of the priority document 3. □ Copies of the certified copies of the priority application from the International Bureat* See the attached detailed Office action for a list	nts have been received. Its have been received in Applicat brity documents have been received in Applicat (PCT Rule 17.2(a)).	ion No. <u>09/611,846</u> . ed in this National Stage				
Attachment(s)						
1) Notice of References Cited (PTO-892)	4) Interview Summary					
 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08 Paper No(s)/Mail Date 	Paper No(s)/Mail D 5) Notice of Informal F 6) Other:	ate Patent Application (PTO-152)				

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DETAILED ACTION

Election/Restrictions

1. Applicant's election without traverse of Group I, Species IA (claims 2-4) in the reply filed on November 22, 2004 is acknowledged.

Accordingly, claims 1 and 5-9 were cancelled. Claims 2-4 are currently pending in this application.

Priority

2. This application appears to be a division of Application No. 09/611846, filed on July 07, 2000. A later application for a distinct or independent invention, carved out of a pending application and disclosing and claiming only subject matter disclosed in an earlier or parent application is known as a divisional application or "division." The divisional application should set forth the portion of the earlier disclosure that is germane to the invention as claimed in the divisional application.

Inventorship

3. In view of the papers filed November 22, 2004, the inventorship in this nonprovisional application has been changed by the deletion of Yoshinori Takana, Minoru Otani, Manubu Sawasaki, Tetsuya Fujikawa, Shougo Hayashi, Kazuhiko Sumi and Tomonori Tanose, who are not inventors of the invention now being claimed.

The application will be forwarded to the Office of Initial Patent Examination (OIPE) for issuance of a corrected filing receipt, and correction of Office records to reflect the inventorship as corrected.

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Claim Objections

4. Claim 2 is objected to because of the following informalities: claim 2 recites the limitation "the structure on the second substrate" in lines 11 and 12. There is insufficient antecedent basis for this limitation in the claim. Appropriate correction is required.

- 5. Claim 3 is objected to because of the following informalities: claim 3 recites the limitation "the auxiliary protrusion structure" in lines 2 and 3. There is insufficient antecedent basis for this limitation in the claim. Appropriate correction is required.
- 6. Claim 4 is objected to because of the following informalities: claim 4 recites the limitation "the extending portion of the second electrode" in lines 1 and 2. There is insufficient antecedent basis for this limitation in the claim. Appropriate correction is required.

Claim Rejections - 35 USC § 112

- 7. The following is a quotation of the second paragraph of 35 U.S.C. 112:

 The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.
- 8. Claim 2 is rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention. The limitation "the protrusion structures extends outside" fails to point out where "outside" is. In the following rejection of the claim, the Examiner will interpret this limitation as "the protrusion structure extends outside the pixel."
- 9. Claim 3 is rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant

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regards as the invention. The limitation "opposing to an extending portion of the second electrode and comprising the auxiliary protrusion structure extending from the protrusion structure" fails to point out what opposes to an extending portion of the second electrode and comprises the auxiliary protrusion structure extending from the protrusion structure. In the following rejection of the claim, the Examiner will interpret this limitation as "the protrusion structure comprising an auxiliary protrusion structure extending from the protrusion structure and opposing to an extending portion of the second electrode."

Claim Rejections - 35 USC § 102

10. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(e) the invention was described in a patent granted on an application for patent by another filed in the United States before the invention thereof by the applicant for patent, or on an international application by another who has fulfilled the requirements of paragraphs (1), (2), and (4) of section 371(c) of this title before the invention thereof by the applicant for patent.

The changes made to 35 U.S.C. 102(e) by the American Inventors Protection Act of 1999 (AIPA) and the Intellectual Property and High Technology Technical Amendments Act of 2002 do not apply when the reference is a U.S. patent resulting directly or indirectly from an international application filed before November 29, 2000. Therefore, the prior art date of the reference is determined under 35 U.S.C. 102(e) prior to the amendment by the AIPA (pre-AIPA 35 U.S.C. 102(e)).

11. Claims 2-4 are rejected under 35 U.S.C. 102(e) as being anticipated by Kim et al. (Kim, USPN 6,567,144 B1).

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Re claim 2, as shown in Figs. 6A, 6B, 7 and 8, Kim discloses a liquid crystal display comprising:

a first substrate 100 having a first electrode 10 (common electrode);

a second substrate 200 having a second electrode 20 (pixel electrode) corresponding to a pixel;

liquid crystal having negative dielectric anisotropy sealed between the first and the second substrates (col. 1, lines 61-64); and

a structure 17 arranged on at least the first substrate 100 to control an alignment of the liquid crystal (Fig. 8 and col. 7, lines 31-37);

wherein the structure 17 on the first substrate 100 has a linear protrusion structure arranged diagonally to the pixel, and at least a part of end portions of the second electrode 20 (on the boundary 19 of the second electrode 20) being in the area decided by the protrusion structure and forming an obtuse angle with the protrusion structure extends outside the pixel (Fig. 8 and col. 7, lines 14-30).

Re claim 3, Kim discloses that the protrusion structure 17 comprises an auxiliary protrusion structure 171 extending from the protrusion structure 17 and opposing to an extending portion 19 (boundary) of the second electrode 20.

Finally, re claim 4, as shown in Figs. 14 and 17, Kim discloses the extending portion 19 of the second electrode 20 having a portion overlapping wirings 21 (gale lines) formed on the second substrate 200 via an insulating film 22.

Conclusion

12. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Thoi V. Duong whose telephone number is (571) 272-2292. The examiner can normally be reached on Monday-Friday from 8:30 am to 4:30 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Robert Kim, can be reached at (571) 272-2293.

Thoi Duong

01/23/2005

TARIFUR R. CHOWDHUR